

ATR Antibody

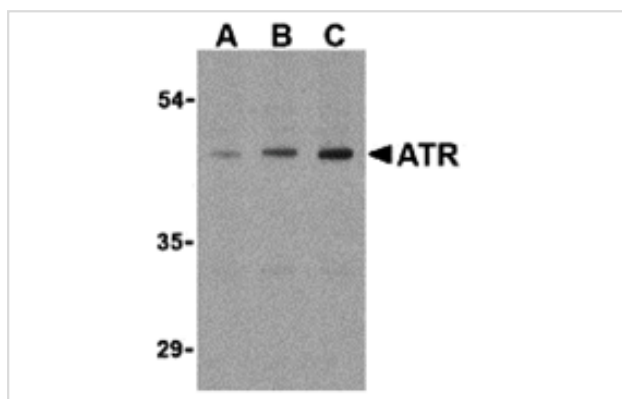
Catalog No: #24188

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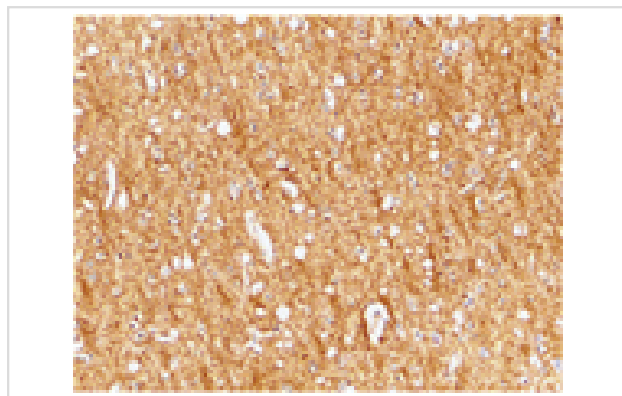
Description

Product Name	ATR Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Ion exchange chromatography purified
Applications	E WB IHC
Species Reactivity	Hu Ms Rt
Specificity	Will recognize all three isoforms.
Immunogen Type	Peptide
Immunogen Description	Raised against a peptide corresponding to 13 amino acids near the center of human ATR.
Target Name	ATR
Other Names	TEM8
Accession No.	NP_444262
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of ATR in HepG2 cell lysates with ATR antibody (IN) at (A) 0.5, (B) 1, and (C) 2 ug/mL.



Immunohistochemical staining of human brain tissue using ATR antibody at 2 ug/mL.

Background

The Anthrax toxin receptor (ATR) was initially discovered as the tumor endothelial marker 8 (TEM8). This protein, which exists in three isoforms (36, 40, and 60 kDa), is highly expressed in tumor vessels as well as in the vasculature of developing embryos, suggesting that it may normally play a role in angiogenesis. However, it also acts as the receptor for anthrax toxin. Following the binding of this protein by the protective antigen (PA) of anthrax, PA is cleaved and heptamerizes to form the binding site for both edema factor (EF) and lethal factor (LF). This complex is then endocytosed by the cell; acidification in endosomes allows the release of EF and LF into the cytoplasm where they interfere with MAPK signaling and induce apoptosis.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.